

# IF ENEMY BOMBERS APPROACHED OUR COUNTRY, WHAT WOULD YOU DO...?

When the Air Raid alert sounds, how would you learn what is happening and what you should do?

Prompt, accurate, civil defense information can help save your family, your life!

The CONELRAD system of public emergency broadcasting is the surest and fastest way of receiving *official* civil defense instructions, information, and news.

When attack is coming, here's *how* and *where* you can find out where to go and what to do.



# REMEMBER! CONELRAD WILL BROADCAST:

**PRE-ATTACK** information and instructions. Where to go. What to do. When to do it.

**EVACUATION** instructions, directions, routes and assembly areas.

**WARNING** when to take shelter. When actual attack is imminent. When it is safe to come out of your shelter.

**FALLOUT** information and instructions. Where fallout is expected. When it is expected. When it is safe to return to an area or come out of your shelter after the danger of fallout has passed and the radioactivity has dropped to safe levels.

**NATIONAL INFORMATION** of top importance. Broadcasts from the President and other national and State leaders of vital interest to you.

GPO : 1955 O—365524



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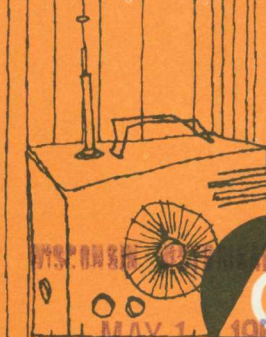
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# dial 640 1240

The Federal Civil Defense Administration has produced or cooperated with private producers in the production of a timely film—CONELRAD. Ask your local civil defense director or TV station to arrange a showing.

"CONELRAD," a 10-minute, black and white film, explains the CONELRAD system.

# 640 CONELRAD 1240



FEDERAL CIVIL DEFENSE ADMINISTRATION





**IF YOU ARE LISTENING  
TO ANY RADIO OR TELEVISION SET  
WHEN THE ALERT SOUNDS,  
YOU WILL HEAR A MESSAGE  
LIKE THIS:**

"We interrupt our normal program to cooperate in security and civil defense measures as requested by the United States Government . . . This is a CONELRAD radio alert . . . Listen carefully: This station is now leaving the air. During the CONELRAD alert there will be no FM or TV programs. The only program on the air will be on your standard radio at 640 or 1240 kilocycles, beginning after a short period of silence. Be patient. Tune the dial of your standard radio receiver to 640 or 1240."

If you are NOT listening to a radio or TV set when this announcement is made, you will know the CONELRAD system has gone into operation when you hear the civil defense sirens or attack warning signals . . . Tune your AM (Standard) radio immediately to the proper dial setting—640 or 1240—and listen for the official broadcast.

**REMEMBER: When an alert sounds,**

**ALL NORMAL BROADCASTING WILL CEASE.**

After a short period of silence, CONELRAD stations will return to the air at 640 or 1240 kilocycles on your standard AM radio. This off-the-air period is due to necessary broadcasting-equipment changes. It will vary for different areas. Contact your local civil defense director for the approximate time lapse in your area.

## WHAT IS CONELRAD?

The system is officially entitled "Plan for CONTROL of ELectromagnetic RADiation"—CONELRAD for short . . . It is a system devised by the broadcasting industry and the Government, working together to bring you official information and civil defense instruction in times of emergency.

## WHY DO WE NEED CONELRAD?

Without it, enemy bombers could tune their direction finders to a station broadcasting in a target city and "beam" right in to their targets. To prevent this from happening in World War II, all stations went off the air—just when life-saving civil defense information and instructions were vitally important to the people under attack. CONELRAD stations CAN continue to operate, even under actual attack conditions, and still deny enemy bombers this navigational aid!

## HOW DOES CONELRAD WORK?

When CONELRAD goes into operation, ALL stations first sign off the air with a standard alert announcement. The stations of the CONELRAD system then reduce power and change their broadcasting frequency to 640 or 1240 kilocycles. Then they *return* to the air.

CONELRAD stations in each city join in a "cluster" of three or more stations. These "cluster" stations broadcast a common program. One station in a "cluster" is on the air for only a few seconds. Then another cluster station picks up the *same* program as the other station leaves off.

You will hear a **CONTINUOUS** program without interruption, although the volume may vary as the program is "switched" from a station near you to one at a more distant point. However, by turning the volume up until you can plainly hear the weakest station, you should always receive a continuous and uninterrupted program.

The effect of this "switching" on a bomber direction finder is to make it swing erratically, so that it cannot "fix" or "home" on a single station.

With many CONELRAD stations in operation, all on 640 or 1240 kilocycles, this completely confuses the "homing" capability of the finder. Many tests conducted by our own Air Force have proved that the CONELRAD system eliminates broadcasting as a navigational aid.

## WHAT ELSE YOU SHOULD KNOW ABOUT CONELRAD:

First, CONELRAD is the only safe broadcasting system yet devised to keep you informed of important civil defense instructions and news without helping enemy bombers find their targets.

Second, CONELRAD may be used in one of two different ways, depending on your location:

### 1. CONTINUOUS METHOD:

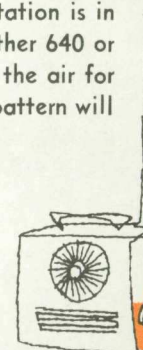
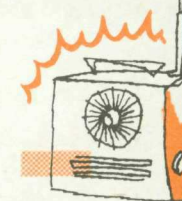
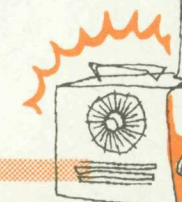
If you are in or near a large city, you will hear a continuous program of civil defense instructions and reports at 640 or 1240 kilocycles, or both, during the CONELRAD operation.

### 2. ON-OFF METHOD:

In some smaller communities where only one station is in the CONELRAD system it will broadcast at either 640 or 1240 kilocycles for a short period, then be off the air for a period of minutes. This on-the-air, off-the-air pattern will continue until the end of the alert.

### NO BROADCAST:

Due to the reduction in transmitting power and the use of two common frequencies (640 and 1240 kc.) throughout the Nation, interference between stations may limit coverage obtainable in some suburban and rural areas. If you are in such an area, your radio may go silent or interference may prevent you from distinguishing the civil defense message being broadcast. This problem is being studied jointly by the Government and the broadcast industry.



## WHAT CONELRAD MEANS TO YOU

CONELRAD will give you civil defense instructions and information that may mean the difference between life and death for you and your family:

**WARNING** CONELRAD will go into effect simultaneously with the first warning from the Air Defense Command. The surest, safest way to *know* what to do when you hear the sirens is to tune to your CONELRAD station at 640 or 1240 on your AM radio dial.

**SHELTER** Your local civil defense director may order you to take shelter if immediate attack is threatened. Only CONELRAD can bring you instructions in your shelter. A battery-operated portable radio with an outside aerial is your best insurance. (Local power may fail.) On all new sets the CONELRAD frequencies of 640 and 1240 are marked. Find out which frequencies will be used in your city. It may be both. If your set isn't marked, mark it NOW!

**EVACUATION** Your civil defense director may order an evacuation of your city when attack threatens. The order will come to you by CONELRAD as well as the public outdoor warning sirens and from Police and Civil Defense Officers. CONELRAD will supplement warnings with full instructions. If evacuation is by car, keep your auto radio tuned to CONELRAD for the latest instructions. Information on routes, assembly areas, and the imminence of attack can be flashed to you instantly as you travel: Although the reduced transmitting power of CONELRAD stations may make reception erratic *beyond* 25 miles, reception within this distance should cover most evacuation routes and reach into most assembly areas. Plans for public emergency broadcasts along evacuation routes and the "fringe" areas are being developed.

**FALLOUT** Because of the heavy amount of radioactive fallout produced by large atomic and hydrogen bombs, your civil defense director may order you to take shelter or evacuate an area even though your own city may not have been bombed. Areas lying down-wind from a bombed city may become contaminated. Even if you have just been evacuated from your city, you may have to take shelter or reevacuate to another area out of the fallout pattern. CONELRAD will bring you this vital information.

**TELEVISION AND FM (FREQUENCY MODULATED) BROADCASTING STATIONS WILL REMAIN OFF THE AIR FOR THE DURATION OF THE ALERT!**